

Committee:
Dr. Wilson
Dr. Little
Dr. Cattell
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TOBACCO INDUSTRY RESEARCH COMMITTEE
150 East Forty Second Street
New York 17, N.Y.

Date: April 25, 1960

#275
(cf. #89)
Activated: 10/1/55
Renewed 9/1/56
#168
Activated: 9/1/57
#203
Activated: 9/1/58
Renewed: 9/1/59

1. Name of Investigator: Caroline Bedell Thomas, M.D.
2. Title: Associate Professor of Medicine
3. Institution & Address: The Johns Hopkins School of Medicine
725 North Wolfe Street
Baltimore 5, Maryland
4. Project or Subject:
 - a. Completion of Studies on Smoker-Nonsmoker Differences among Johns Hopkins Blood Bank Donors.
 - b. Continuation of Studies on Psychological Smoker-Nonsmoker Differences among Johns Hopkins medical students.
 - c. Continuation of Studies on the Ballistocardiographic Smoking Test.

5. Detailed Plan of Procedure:

As discussed in the accompanying Progress Note (attachment 1), the work projected under our current two-year TIRC grant is not yet complete. Therefore, a grant for an additional year is requested for the following purposes:

a. Completion of Studies on Smoker-Nonsmoker Differences among Johns Hopkins Blood Bank Donors. It is proposed to write two more papers on smoker-nonsmoker differences in these healthy subjects: the first, a comparison of cholesterol levels and the second, a comparison of parental smoking habits, causes of parental disability and death, along the lines of the first two papers of the series (attachments 3 and 6).

b. Continuation of Studies on Psychological Smoker-Nonsmoker Differences among Johns Hopkins Medical Students with Particular Reference to Figure Drawings (Draw-a-Person Test). After a number of exploratory studies (see attachment 1) and after finishing the "Review of the Literature" now in the process of completion and making suitable reproducibility checks, it is our purpose to write at least two papers analyzing our figure drawing material with especial attention to sexual differentiation and identification and the relationship of body type to self image. The results of these studies will then be available for comparison with the anthropometric measurements of sex components and body type now being made by Dr. Carl Seltzer on the same Johns Hopkins medical students under an independent TIRC grant.

c. Continuation of Studies on the Ballistocardiographic Smoking Test.

1. Much of our tabulated data on ballistocardiographic form before and after smoking is not yet published. A new paper is projected in which the points touched on at the end of the New York Academy of Sciences paper (attachment 5) will be expanded and other data added.

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2. At the recent New York Academy of Sciences Conference, Dr. J. H. Burn of Oxford, England reported that nicotine produces cardiac acceleration through the release of local stores of adrenalin and noradrenalin, and that this effect is neutralized by reserpine. It is proposed that exploratory studies be made using reserpine, along the lines of our hexamethonium and amphetamine studies, to see how the individual patterns of circulatory response to smoking in man may be altered. This approach might provide a rough index or indirect bioassay of human stores of catecholamines.

6. Budget Plan:

Salaries	\$ 8,550*
Expendable Supplies	500
Permanent Equipment	---
Overhead (15%)	1,500
Other (Tabulation and employee welfare benefits 5%)	950

	\$11,500

7. Anticipated Duration of Work: One year

8. Facilities and Staff Available: a. Facilities: There is ample space available at our research project headquarters. b. Staff: 1) Dr. Caroline B. Thomas devotes full-time to the combined research projects (TIRC and N.H.I. grants). 2) Dr. Leona Wise Jones, Research Psychologist, joined our staff on a two-day a week basis on Dec. 1, 1959 to analyze the figure drawing material. She will be available on the same basis during the coming year. A recent arrival in Baltimore, she taught Educational Psychology and Educational Tests and Measurements at the Johns Hopkins Univ. last summer. (Ph.D. in Psychology at Northwestern Univ. 1944; has held a series of full-time teaching and administrative positions; Who's Who in America, 1958-59, American Men of Science III, Social and Behavioral Sciences). 3) Dr. Bernice Cohen, collaborator in the Blood Bank studies, is a Post-Doctoral Fellow in Genetics (Chr. Dis. Div., J.H. Sch. of Hyg. and Publ. Health and Div. of Med. Genetics, Dept. of Med., J.H. Sch. of Med.). 4) Dr. Kendrick joined our staff Sept. 1, 1959, as full-time statistician under a supplementary grant from the N.H.I. 5) Dr. E. W. Stockbower, clinical psychologist, administers and interprets psychological tests.

9. Additional Requirements:

None

10. Additional Information (Including relation of work to other projects and other sources of supply):

The aims of the project outlined above are in harmony with those of Grant H-1891 (C6) entitled "Precursors of Hypertension and Coronary Artery Disease" awarded by the National Heart Institute. The funds from that source do not include most of the items covered by the budget given above. Where similar items exist in each of the two budgets, it is because the budget from Grant H-1891 (C6) is insufficient to meet the total expense of a given item, and the two budgets will be used in such a way that they supplement each other.

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* See next page.

*Breakdown of Salary Request:

Director, Dr. Caroline B. Thomas	\$ 3,000 (she receives \$5,500 from N.H.I.)
Research Psychologist, Dr. Leona W. Jones	2,400
Statistical clerical and secretarial	3,150

	\$ 8,550

/s/ Caroline Bedell Thomas
Director of Project

/s/ Thomas B. Turner
Business Officer of the Institution

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